FILE NOTATIONS

Entered in NID File ...✓.... Checked by Chief .....
Location Map Pinned ..✓.... Approval Letter .....
Card Indexed ...✓.... Disapproval Letter .....

COMPLETION DATA:

Date Well Completed 1/24/79 Location Inspected .....
W..... WW..... TA..... Bond released
GW..... OS..... PA..✓.. State or Fee Land .....

LOGS FILED

Driller's Log.....✓.....
Electric Logs (No.) ✓.....
E..... I..... Dual I Lat..... GR-N..... Micro.....
HC Sonic GR..... Lat..... Mi-L..... Sonic.....
CBLog..... CCLog..... Others.....

CW 5-16-90

Form OGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. Lease Designation and Serial No.: State 27411

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name:

1a. Type of Work: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

7. Unit Agreement Name: Nightcrawler

b. Type of Well: Oil Well [ ] Gas Well [X] Other — Single Zone [ ] Multiple Zone [ ]

8. Farm or Lease Name: State

2. Name of Operator: The Anschutz Corporation

9. Well No.: #2-State-411

3. Address of Operator: 1110 Denver Club Bldg., Denver, Colorado 80202

10. Field and Pool, or Wildcat: wildcat

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 802' FWL, 1572' FNL (calculated--See Plat)
At proposed prod. zone: same

RECEIVED JUN 8 1977 DIVISION OF OIL, GAS, & MINING

11. Sec., T., R., M., or Blk. and Survey or Area: NE SW NW 23-T18S-R20E

14. Distance in miles and direction from nearest town or post office*: 22-miles from Thompson, Utah

12. County or Parrish: Grand Co., Utah 13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 802'

16. No. of acres in lease: 2,560 Acres

17. No. of acres assigned to this well: 640 Ac.

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.:

19. Proposed depth: 15,000'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 8934' ground 8944' K.B. est.

22. Approx. date work will start*: August 1, 1977

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12¼"	9 5/8"	43.5#	1,000'	400 sacks
8 3/4"	7"	35.0#	9,000'	3000sacks
6 1/8"	4½"	9.5#	15,000'	300 sacks

1. This well will be drilled using a conventional mud system, with the mud weight, water loss and viscosity kept within limits necessary for good hole conditions.

2. This is a Paleozoic test.

3. GR-FDC-SNP logs are planned for this well, and drill cuttings will be caught from beneath surface to Total Depth.

4. Location and proposed access map are attached.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. George H. Fentress

Signed: George H. Fentress Title: Agent Consultant for Anschutz Corporation Date: June 7, 1977

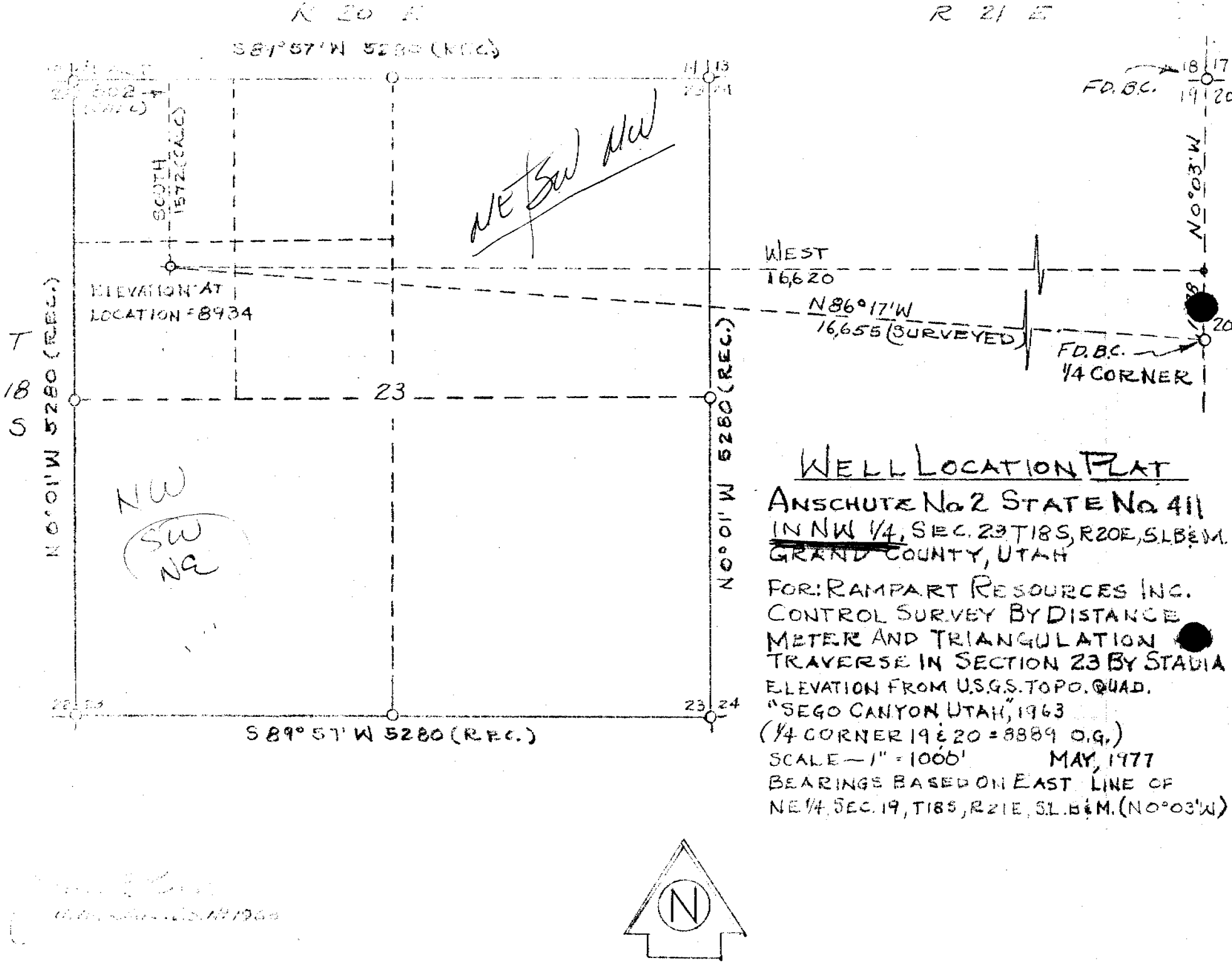
(This space for Federal or State office use)

Permit No. ..... Approval Date .....

Approved by ..... Title ..... Date .....

Conditions of approval, if any:

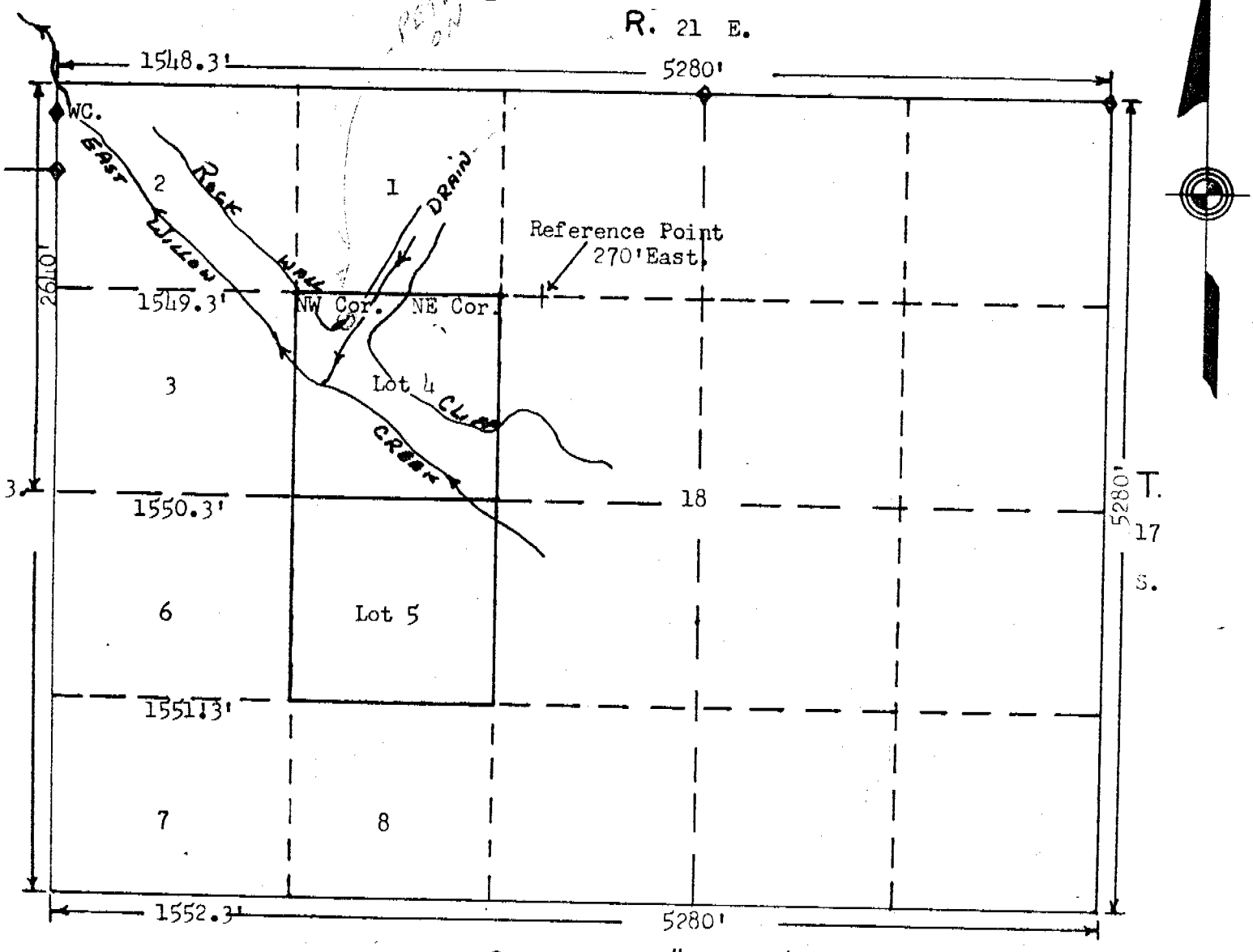
*See Instructions On Reverse Side



WELL LOCATION PLAT

ANSCHUTZ No. 2 STATE No. 411
IN NW 1/4, SEC. 23 T18S, R20E, S.L.B.&M.
GRAND COUNTY, UTAH

FOR: RAMPART RESOURCES INC.
CONTROL SURVEY BY DISTANCE METER AND TRIANGULATION TRAVERSE IN SECTION 23 BY STADIA
ELEVATION FROM U.S.G.S. TOPO. QUAD. "SEGO CANYON UTAH," 1963
(1/4 CORNER 19 & 20 = 8889 O.G.)
SCALE — 1" = 1000' MAY, 1977
BEARINGS BASED ON EAST LINE OF NE 1/4 SEC. 19, T18S, R21E, S.L.B.&M. (N 0°03' W)



Scale ····· 1" = 1000'

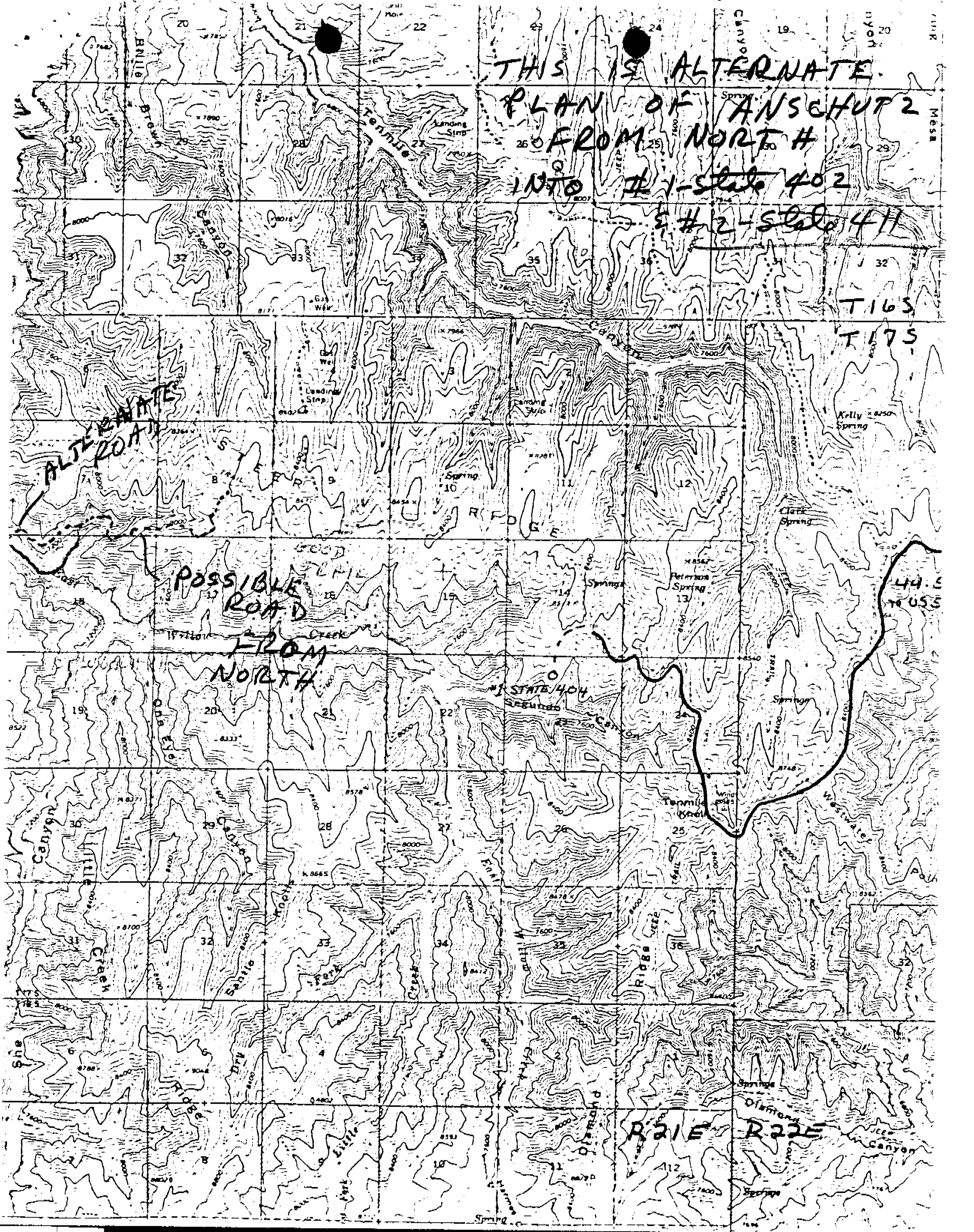
Powers Elevation Company, Inc. of Denver, Colorado has in accordance with a request from George Fentress for The Anschutz Corporation determined the location of Northwest & Northeast Corners Lot 4 to be Section 18 Township 17 S. Range 21 East of the Salt Lake Base and Meridian Grand County, Utah

I hereby certify that this plat is an accurate representation of a correct survey showing the location of Nirthwest & Northeast Corners Lot 4.

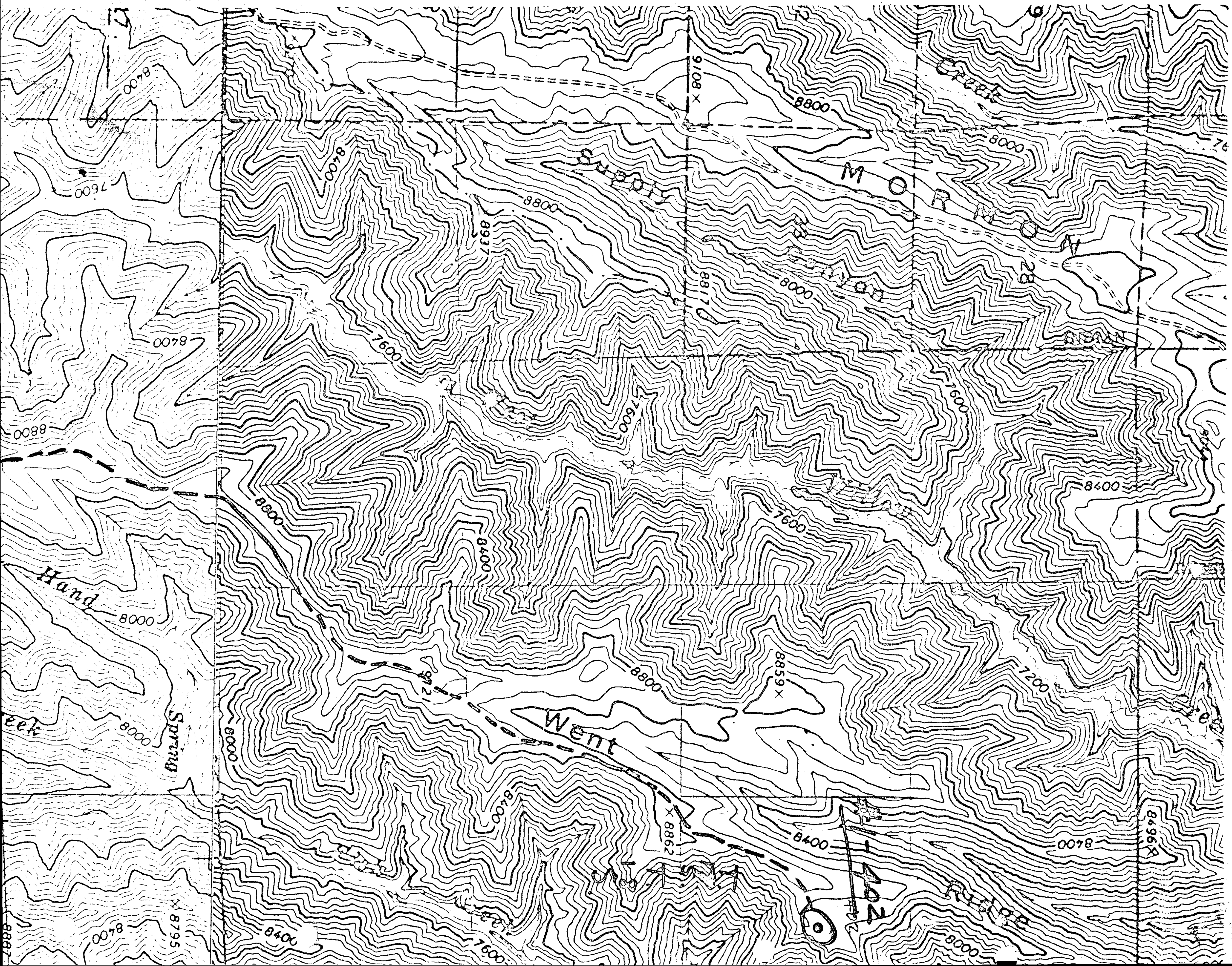
Date: 7-7-77

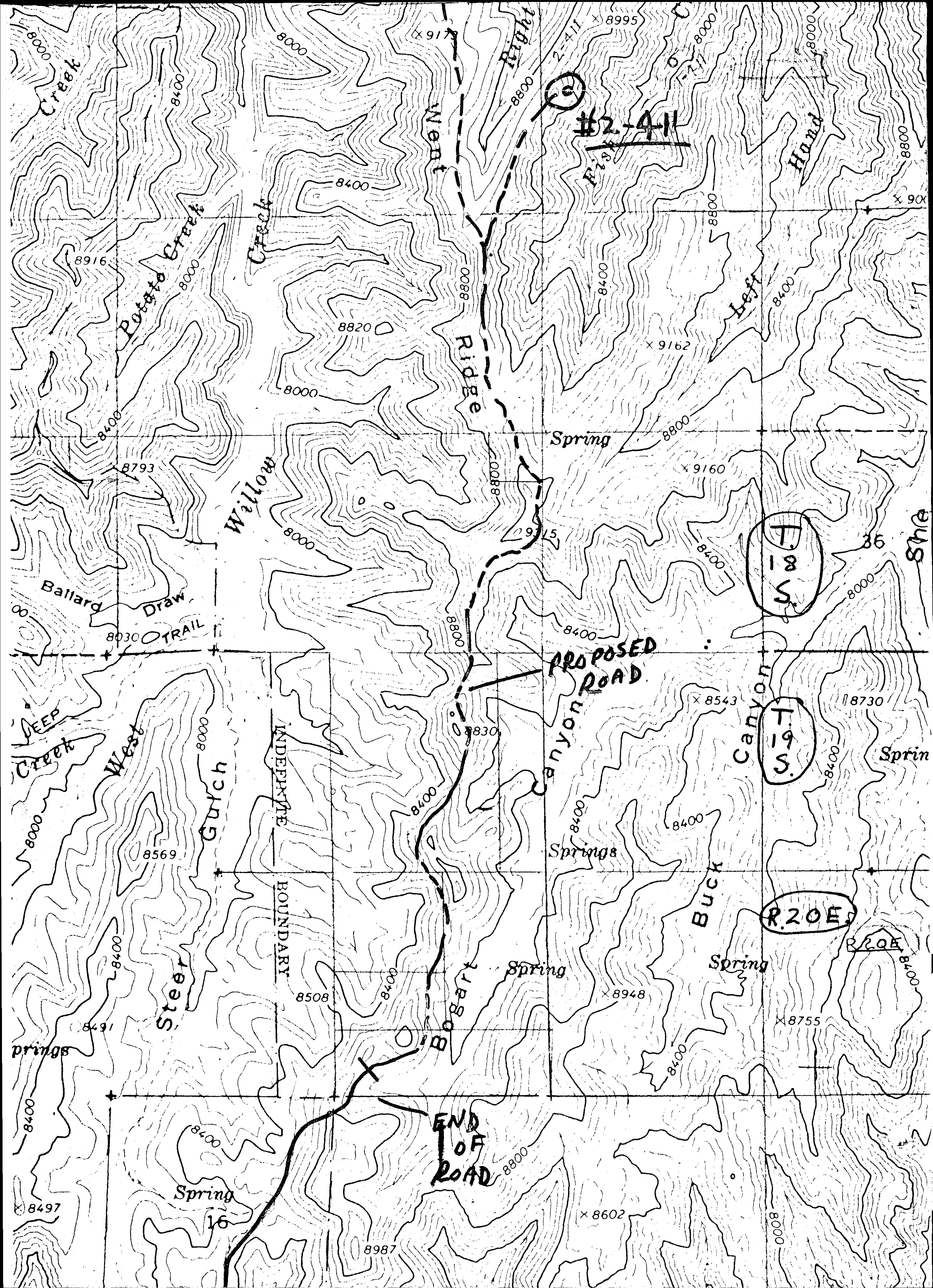
T. Nielsen

Licensed Land Surveyor No. 2711
State of Utah

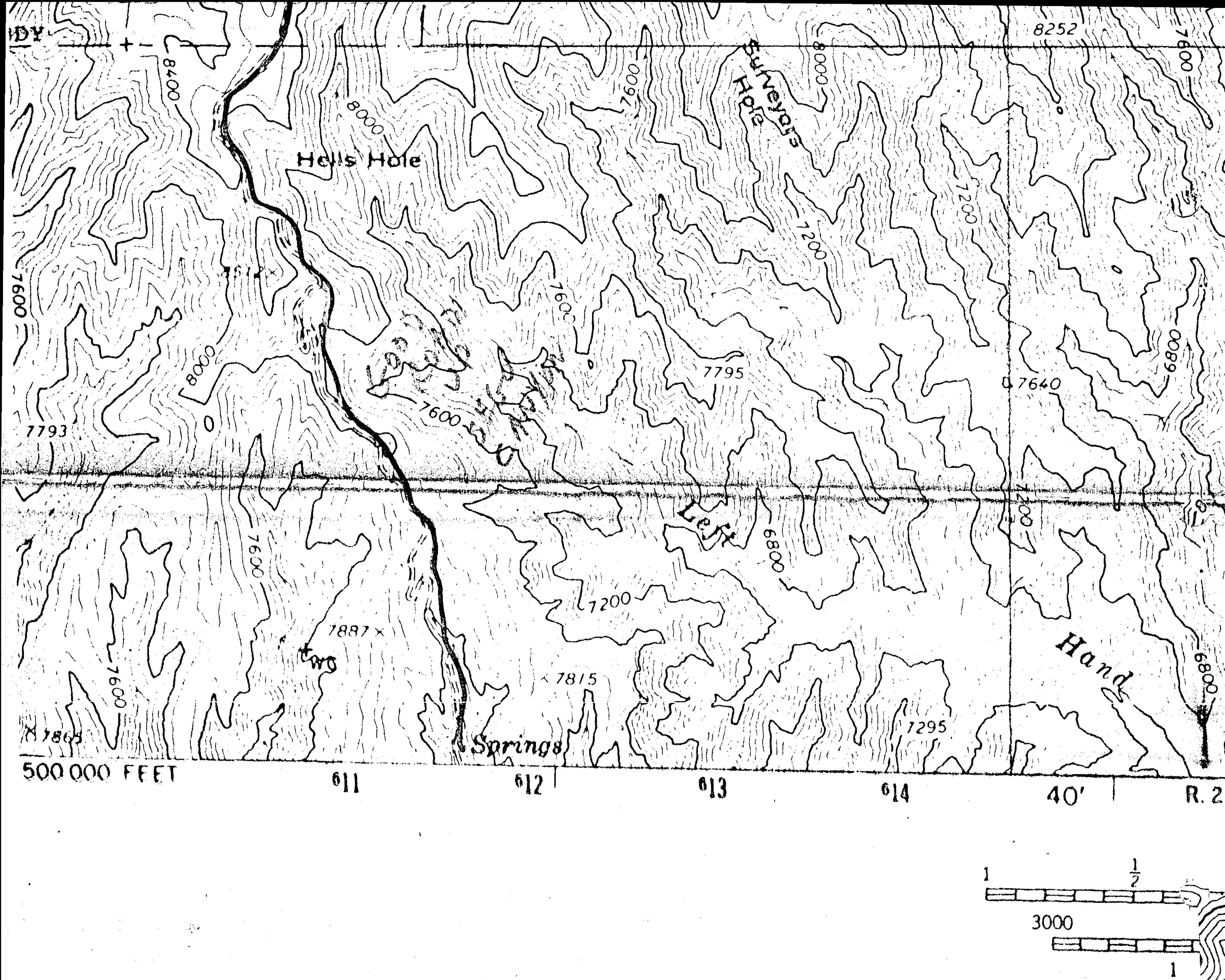


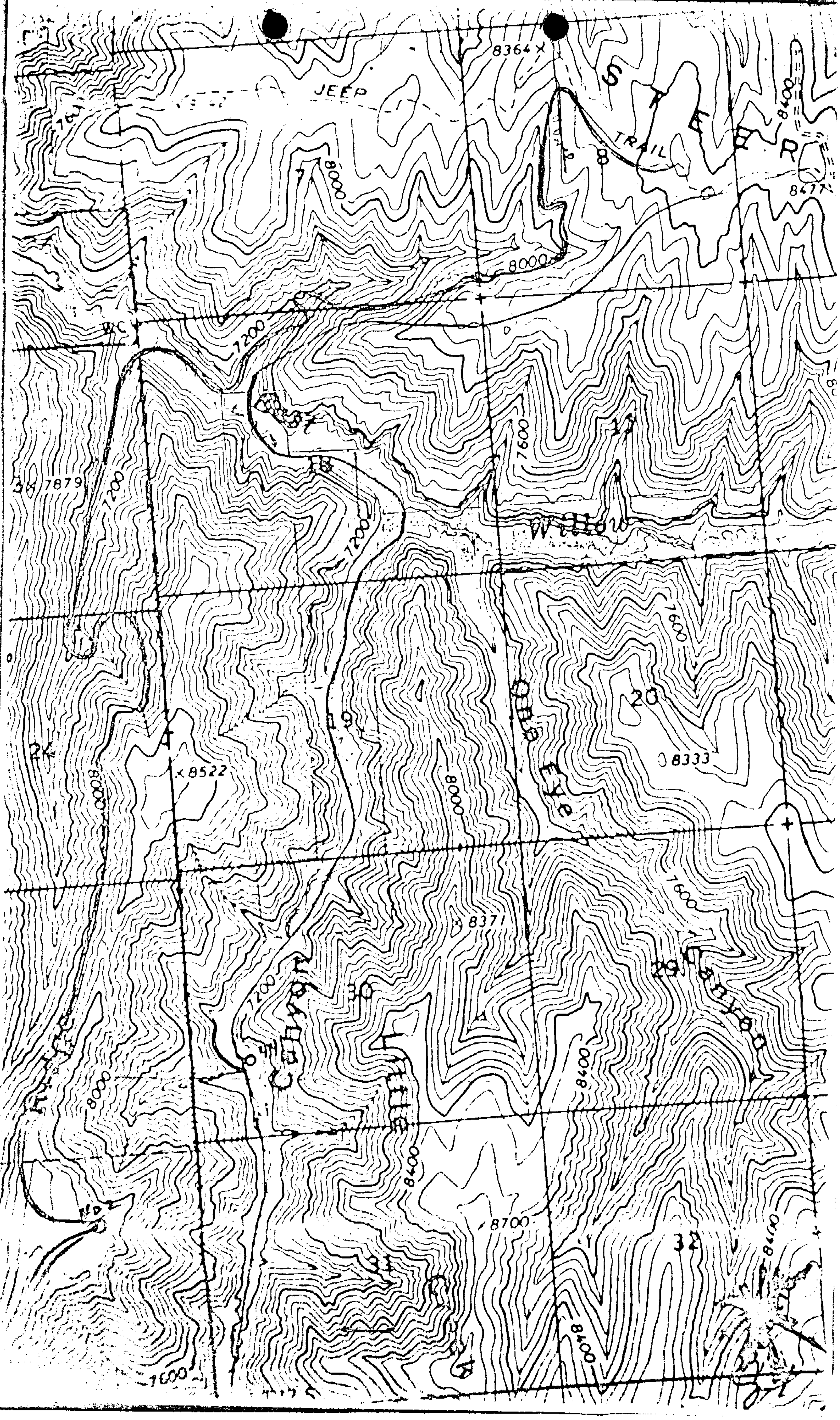
THIS IS ALTERNATE PLAN OF ANSCHUTZ FROM NORTH # INTO #1-State 402 & #2-State 411
T16S
T17S
ALTERNATE ROAD
POSSIBLE ROAD FROM NORTH
#1 STATE 404
R21E
R22E
Tenmile
Landing Strip
Gas Well
Steer Ridge
Kelly Spring
Clark Spring
Peterson Spring
Segundo Canyon
Tenmile Knoll
Willow Creek
Westwater
Diamond
Canyon
Jeep
Mesa


M O R M O N
Creek
Went
Hand
Spring
9108
8937
8817
8859
8862
8795
8800
8000
8400
7600
7200
28



#2-411
2-411
PROPOSED ROAD
END OF ROAD
T. 18 S.
T. 19 S.
R.20E.
R.20E.
36
16
Creek
Potato Creek
Creek
Willow
Ridge
Right
Left
Hand
Spring
Ballard Draw
TRAIL
JEEP
Creek
West
Steer
Gulch
INDEFINITE BOUNDARY
Canyon
Buck
Canyon
Springs
Spring
Bogart
Spring
Spring
Springs
8995
8916
8820
8793
8030
9162
9160
8543
8730
8830
8569
8508
8491
8948
8755
8497
8602
8987
8000
8400
8800


Hells Hole
Surveyors Hole
Left
Hand
Springs
8252
7795
7640
7793
7887
7815
7295
8400
8000
7600
7200
6800
500 000 FEET
611
612
613
614
40′
R. 2
3000



8364
JEEP
STEER
TRAIL
8
8477
7
8000
8000
7200
7879
7200
7600
Willow
7200
7600
20
8333
19
8522
8000
8000
Eye
7600
8371
29
Canyon
30
7200
8400
8000
8400
8700
32
8400
8400
7600

ENVIRONMENTAL ENGINEERING COMPANY
Professional Engineering Services

P. O. Box 3341
Casper, Wyoming 82601
Phone (307) 234-6186

1645 Court Place
Suite 229
Denver, Colorado 80202
Phone (303) 892-1506

June 7, 1977

Cleon B. Feight, Director
Utah Div. Oil, Gas and Mining
1588 West, North Temple
Salt Lake City, Utah 84116

RE: The Anschutz Corporation
#1-State-402
Sec. 36-T17S-R20E, and
#2-State-411
Sec. 23-T18S-R20E
Grand County, Utah

Dear Cleon:

As we have previously discussed, the referred locations have been staked and I enclose herewith applications to drill these wells.

The alternate locations to these were earlier staked and Form OGC-1a's filed with you May 4 and 5, 1977. Thus far, there has been no response from your office as to the disposition or status of these.

As you know, in an extreme effort by Anschutz to effect the environment the least in this area, they have altered several locations to provide minimal road cuts and ingress-egress. Therefore, it is believed the new filings herewith should be more satisfactory to all concerned by staying on top of Went Ridge, as shown on the map provided, rather than drilling in the bottom lands.

We will appreciate your immediate consideration and blessing for the two new alternate locations for the above reasons, and others.

I would have had these to you sooner, but wanted to send them both together with the one access road map. However, weather and problems of access by the surveyor out of Moab did delay and hamper our staking and it thus has taken us some three weeks to finalize this filing.

I hope you will be available to helicopter into the site soon.

Best wishes!

George H. Fentress

George H. Fentress
Agent Consultant for Anschutz
Phone: 423-0835 or 279-4880 Res.
P. O. Box 113
Wheat Ridge, Co. 80033

cc. Anschutz, Denver

June 14, 1977

MEMO

TO: DAVID B. MADSEN, State Archeologist

FROM: KAY SARGENT, Archeologist

RE: DRILL SITE CLEARANCES FOR ANSCHUTZ CORPORATION

Friday, June 10, 1977, Ron Danielson, Pat Driscoll, and Howard Leach, representatives of the Utah Division of Oil, Gas, and Mining, accompanied me to three proposed drill sites and their proposed access roads. These are to be developed by the Anschutz Corporation.

The clearance was conducted by examining an area approximately two hundred feet or more on either side of the staked and flagged drill center. The access road, which will be confined mainly to the ridge tops, was not flagged or staked so that a wider area was examined (by a meandering "zig-zag" path) to insure coverage of the route.

Anschutz No. 1 State 492 is located in the SE¼ of the SE¼ of Section 2, T19S, R21E, in the canyon bottom. The proposed drill site is on the east side of an existing road and as such has been frequented by recent campers as rusted cans and other campfire debris attest. No prehistoric remains were evident from surface examination.

Anschutz No. 2 State 411 is in the SW¼ of the NW¼ of Section 23, T18S, R20E, atop a narrow ridge separating the Right Hand of Fish Creek from Fish Creek proper. The cover was moderately heavy making observation difficult. A forest cover was present, with

underbrush and humus. No archaeological remains were observed.

State #402 is located in the SW¼ of the NE¼ of Section 36, T17S, R20E, in a basin-like area on the east side of Went Ridge. The area has been chained and is now grass covered. Scrub oak and lower brush occurs on the surrounding ridges. No archaeological remains were evident.

Since access roads to the latter two drill sites are to be constructed, an effort was made to examine part of this route also. The proposed access road extends from the end of the existing road in Section 10(?), T19S, R20E, to drill pad St. #402 in Section 36. A spur to connect St. #411 is to leave the main route in the northern portion of Section 27, T18S, R20E. In all, the proposed route is approximately 10-11 miles long. I was able to examine the route of the spur to St. #411 (approximately 1 mile) and the main route from St. #402 south to the SW¼ of the NE¼ of Section 15 (4 miles). No indications of prehistoric occupation were encountered, somewhat surprising as archaeological sites are known in this general area and game appears to be abundant. The heavy ground cover of some areas did hamper vision to some extent, and it is always possible that archaeological remains may exist without above ground indications. I was informed that the rest of the route will be surveyed and flagged which should facilitate the clearance of the remaining 5-6 miles of access road.

ACCESS ROUTES TO STATES 402 and 411

Considerations	South Route (Through Cunningham)		North Route (By Pass Cunningham)	
Amount of Blasting	Two days	-1	Thirty days	-4
Cost	180,000	-1	$400,000 - 600,000 +	-4
Grade	5-15%	-1	15-30%	-3
Spring, summer, fall maintenance	Small	-1	Moderate	-2
Winter maintenance	Mod.	-1	Constant - Extreme	-2
Physical assistance (hoisting)	Required in bad weather only	+1	Constantly required	-2
Safety	Less hazardous	+1	Most hazardous (might loose someone)	-2
Amount of destruction to create	Moderate - 8 miles	-1	Great - 4 miles	-2
Amount of refuse from road onto other owners grazing land	Small	+1	Great	-1
Erosion problems created	Small	+1	Great-road on a very steep hill side	-2
Effect on wildlife	Moderate effect for 100 acres	-1	Moderate effect for 4500 acres	-3
Effect on water quality (Other than general drainage)	Directly in no minor or major drainages	+1	Directly in one minor and one major drainage. Indirect access to 20 drainages.	-1
Amount of land road provides easy access to - if barrier breached	100 acres in roadless area	-1	4500 acres in roadless area	-3
Archaeological considerations	No archaeological findings	+1	Petrographs could be destroyed	-2
Ability to control barrier during operations	Harder	-1	Easier	+1
Ability to destroy complete road	Easier	+1	Impossible to restore to original	-2
Ability to revegetate	Easier	+1	Harder	-1
# of Negative Aspects		-9		-36
# of Positive Aspects		+8		+1
		-1		-35

ACCESS ROUTES TO STATES 402 and 411

Considerations	South Route (By Pass Cunningham)		North Route (Through Cunningham)	
Amount of Blasting	Five days	-2	Fifteen days	-3
Cost	250,000 dollars	-2	250,000 dollars	-2
Grade	15-20%	-2	15-30%	-3
Spring, summer, fall maintenance	Small	-1	Moderate	-2
Winter maintenance	Med.	-1	Constant - Extreme	-2
Physical assistance (hoisting)	Probaly not required	-1	Constantly required, because of steep grade	-2
Safety	Less hazardous	+1	More hazardous	-1
Amount of destruction to create	Moderate - 9 miles	-2	Great - 4 miles	-2
Amount of refuse from road onto other owners grazing land	Small	+1	Great	-1
Erosion	Med	-1	Great - Road on a very steep hill side	-1
Effect on wildlife	Moderate effect for 4500 acres	-3	Moderate effect for 4500 acres	-3
Effect on water quality (other than general drainage)	Directly in one major drainage. Indirect access to 20 drainages	-1	Directly in one minor & one major drainage. Indirect access to 20 drainages.	-1
Amount of land road provides easy access to - if barrier breached	4500 acres in roadless area	-3	4500 acres in roadless area	-3
Archaeological considerations	No archaeological findings	+1	Access to petrographs	-1
Ability to control barrier, during operations	Harder	-1	Easier	+1
Ability to destroy complete road	Easier	+1	Virtually impossible	-1
Ability to revegetate	Easier	+1	Harder	-1
# of Negative Aspects		-20		-29
# of Positive Aspects		+5		+1
		-15		-28

June 16, 1977

STATE OF UTAH
Calvin L. Rampton, Governor
DEPARTMENT OF
DEVELOPMENT SERVICES
Division of State History
Melvin T. Smith, Director
603 East South Temple
Salt Lake City, Utah 84102
Telephone: (801) 533-5755

Mr. Cleon B. Feight
Director
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Jack:

Please find enclosed a report of an archeological survey conducted by the Antiquities Section, Division of State History. As you will note, no cultural resources were detected, and in my opinion there should be no problems with development of these locations.

I have forwarded a copy of this Memo to the State Historic Preservation Officer, and he should be in contact with you.

Please find enclosed a statement for our costs.

Sincerely,

David B. Madsen

David B. Madsen
State Archeologist

DBM:ap

Enclosures

CIRCULATE TO:
DIRECTOR ☐
PETROLEUM ENGINEER ☐
MINE COORDINATOR ☐
ADMINISTRATIVE ASSISTANT ☐
ALL ☐
RETURN TO Schaefer
FOR FILING

JUN 17 1977

CIRCULATE TO:

DIRECTOR ☐
PETROLEUM ENGINEER ☐
MINE COORDINATOR ☐
ADMINISTRATIVE ASSISTANT ☑
ALL ☐

RETURN TO Kathy D.
FOR FILING

June 27, 1977

Memo To File:

Re: Anchutz Corporation
State #402
State #411

As of the tenth of June, 1977 Mr. Driscoll and Mr. Daniels accompanied by a state archeologist, Ms. Kay Sargent, flew into a roadless area in the Bookcliffs in order to inspect both sites and possible roadway. An environmental impact statement is being prepared relative to the above sites.

PATRICK L. DRISCOLL
CHIEF PETROLEUM ENGINEER

cc Division of State Lands
PLD/ksw

ENVIRONMENTAL ASSESSMENT
for
ANSCHUTZ CORPORATION
#2 STATE 411 and #1 STATE 402
WILDCAT OIL AND/OR GAS WELLS

ON
STATE OF UTAH ML-27411
SW NW SECTION 23,
TOWNSHIP 18 SOUTH, RANGE 20 EAST; AND
STATE OF UTAH ML-27402
NW¼, SW¼, NE¼, SECTION 36,
TOWNSHIP 17 SOUTH, RANGE 20 EAST
GRAND COUNTY, UTAH

JUNE 28, 1977

PREPARED BY:
UTAH DIVISION OF OIL, GAS, AND MINING
PATRICK L. DRISCOLL, CHIEF PETROLEUM ENGINEER
RONALD W. DANIELS, MINED LAND COORDINATOR

I. DESCRIPTION OF THE PROPOSED ACTION:

The Anschutz Corporation plans to drill two (2) wells on existing State oil and gas leases in Section 23, Township 18 South, Range 20 East, SLBM, and in Section 36, Township 17 South Range 20 East, SLBM. These will be rank wildcats and are projected to bottom at and test potential hydrocarbon bearing horizons from the surface to the Cutler Formation. Those formations having potential include the Dakota, Cedar Mountain, Entrada, and the Glen Canyon group of Navajo, Kayenta, and Wingate. The total depth is estimated to be 15,000' for #2-411 and 9,400' for #2-402.

The surface facilities for these wells will necessitate a drilling pad of 350' x 400' (3¾ acres) each. If the wells are successful, these pads can accommodate all surface facilities necessary to produce the wells.

The access to the proposed sites begins at the town of Thompson. From this site, follow a well maintained road up Sego Canyon to the SW¼ SW¼ of Section 10, Township 19 South, Range 20 East. There is a question as to whether or not this is a county maintained road. Nevertheless, it is anticipated that a minimum amount of upgrading is required on the existing road in order to permit a safe and speedy passage of rig components.

The road follows along the top of a well-defined ridge, (Went Ridge) and it branches off to a thumb ridge overlooking Fish Creek. The ridge at the proposed drill-site is quite narrow and will entail a cut of at least 50 feet. It therefore will be recommended to the operator of this proposed project that the contemplated drill-site be moved SSW along the ridge for a distance of seven hundred to one thousand (700-1,000') feet. This move will mitigate the necessity for a large cut (approximately 50 feet) to a much smaller one (approximately 20 feet); the ridge broadens considerably as one moves in the aforementioned direction.

Approximately 4.5 miles of new road will have to be made to well #2-411 and 5½ additional miles of road will be needed to gain access to #1-402, all on Went Ridge. It is estimated that 14' R.O.W. will be needed, and if in the event a dry-hole is apparent, and no further use is proposed for the road, it will be closed through earthwork and blasting, erosion control structures installed, and revegetated for stabilization purposes.

II. DESCRIPTION OF THE ENVIRONMENT POTENTIALLY AFFECTED:

A. General -

The majority of the environment affected by this proposed project will occur along the road course (approximately 17 surface acres and two (2) drill sites with an estimated area of 3¼ acres each). The road begins in the mountain brush type at an elevation of 8,500 feet, plus or minus 50 feet. The formation exposed at the beginning of the road is the Wasatch Formation and as one progresses northward, the surface exposure is that of the Lower Green River Formation. This formation is also exposed at the projected drill site on well #1-402.

B. Topography and Drainage -

The slopes on either side of Went Ridge are quite steep and are estimated to be 60 degrees or more. The soil cover is relatively shallow and is believed not to exceed six (6) inches. No running water and/or ponds are evident within the immediate vicinity of the well location, but Fish Creek, ½ mile to the east of well #2-411 is assumed to contain water at intermittent points along its course. Well # 1-402 is approximately ½ mile west of She Canyon which is perennial in certain points along its course.

Fish Creek is a tributary of She Creek and both of these are tributaries to Willow Creek, the main drainage of this area of the Book Cliffs. Willow Creek drains to the Green River near Ouray.

C. Climate -

Precipitation in this area of the Book Cliffs is variable by season. The majority of precipitation falls from October to April, the normal precipitation for this period is 12 inches, while the period from May through September accounts for a normal of 6 to 8 inches.

The mean minimum temperature for January in this region of the Book Cliffs is 8 degrees and the mean July maximum is 70 degrees.

D. Soils -

The general soil association for the well pad areas differs from that along the beginning road route. The Argic Cryoborolls-Pachic Cryobor-

olls-Cryic Paleborolls Association is that found on the well pad and is a typical moist mountain slope soil. Moderate to excessive drainage is not uncommon with permeability ranging from slow to rapid.

Runoff from this association is medium to slow and could be classified as non-hazardous from an erosivity standpoint. Sediment production is classified as moderately low.

For the area covered by the beginning of the road route the soil association present is drastically different than that on the well pad itself. From the end of the present road in Sego Canyon, the soil association is the Badland-Rock Land Association.

Only about one (1) mile of road will be constructed in this soil type where runoff is rapid and sediment production can be a major problem.

E. Livestock Grazing -

Forage production of this area of the Book Cliffs changes with topographical vegetative, hydrologic and soil conditions. The access road and well #1-402 are assumed to produce 30-50 Animal Unit Mouths (A.U.M.'s) per section while forest overstory vegetation on the well pad of #2-411 reduces the forage production capability considerably to approximately 20 AUM's per section.

F. Wildlife Resources -

The Book Cliffs region is inhabited by both large and small wildlife species. The principal big game species in the well and road locations are mule deer, elk, black bear, and cougar. Small game species include cottontail rabbit, forest grouse, chukar, and showshoe hare. Other wildlife species are abundant and include coyote, jack rabbit, gopher, eagles, hawks, various rodents, and song birds.

It is not known whether Fish Creek comprises a sport fishery.

Summer range is provided for elk and deer in the higher elevations where the road and well are proposed to be located. These species migrate to surrounding lower elevations when weather and range conditions dictate.

Additional wildlife resource input is anticipated from the Division of Wildlife Resources; this will be added to this assessment.

G. Recreation -

As a resource, this block of State ownership has not been developed intensively for recreation. The most prevalent recreational use has been big game hunting. Due to the roadless condition of the Book Cliffs, hunting has been from camps to which access has been gained by foot or on horseback. Some backpacking dispersed recreation undoubtedly occurs in the Book Cliffs, but only on a limited basis.

H. Vegetation -

The Mountain Brush vegetative type dominates both the road and well locations. Some Ponderosa Pine and Douglas Fir sawtimber occur on the site for well #2 State 411. On #1 State 402, range grasses and spray-treated sagebrush dominate the surrounding vegetation.

Shrubs, grasses, and deformed trees dominate the proposed road route. A sampling of this vegetation includes Gamble Oak, Utah Serviceberry, Mountain Mahogany, Bigtooth Maple, Juniper, Pinyon, Western Yarrow, Woods Rose, Annual Brome, Lupines, Bitterbrush, and Elderberry.

I Historical/Archeological -

Both well pads have been examined by the State Archeologist's representative, and no signs of previous habitation or use were discovered. In addition, a portion of the access road from well #1-402 south for 1½ miles, and the spur ridge road to #2-411 from Went Ridge were surveyed with no positive findings.

J. Socio-Economic -

Human habitation in the Book Cliffs is mostly seasonal and fluctuates with the grazing season. Presently, two "industries" utilize that land which will be affected by the two wells and attendant transportation corridors. These "industries' are the use of natural and managed range through grazing and the utilization of a managed wildlife population through hunting. Peripheral lands to the proposed development area contain producing oil and gas wells.

III. PROBABLE IMPACTS OF THE PROPOSED ACTION:

A. General Impacts -

The areal extent of impacts of this proposal is approximately 24 acres. All of this would be construction-type activity and involves cuts, fills, grading, and borrow. If borrow activities were needed beyond present expectations, the total area disturbed is not expected to exceed 30 surface acres.

Probably the impact of greatest magnitude is the actual road access to this previously unroaded, de-facto primitive area. Conflicting land use desires for this tract by the Division of State Lands lead to this dilemma--valid mineral leases versus a roadless classification by that Division.

Any permission from the Division of State Lands for road access across State Lands into the approved location will be the responsibility of Anschutz.

B. Topography and Drainage Impacts -

Major topographical changes are not anticipated through permitting the proposed activity. There will be local topographical changes made through road building and pad construction, especially on well #2-411 where a substantial cut for the placement of pad facilities is anticipated.

Drainage into both Willow Creek and adjacent tributaries will be affected. Activity in roadbuilding and pad construction will cause increased sediment load to this drainage. Because of the nature of the road location, however, it is believed that the increased siltation will be minimal.

Providing access to a previously unroaded area considerably raises the possibility of unrestricted off-road vehicle use in the Willow Creek drainage and thereby the chances for watershed degradation. At this point, the magnitude and severity of this secondary impact are difficult to assess.

In the event that a dry hole is discovered in both of these wells and the road closing is performed in a proper manner continued ORV use can be precluded.

Following the drilling operations, the effects upon the natural drainage system will be lessened through stabilization of disturbed areas.

C. Climate Impacts -

The Book Cliffs climate will not be altered significantly through the completion of this proposal.

D. Soils Impacts -

The soil impacted by this proposal will be that directly in connection with surface activities on the previously mentioned 24-30 acres. Some soil will be lost directly to runoff from the facilities. Erosion will occur both during and after drilling operations. The majority however, will be lost during the operations merely by rill and sheet erosion from exposed ground surfaces.

It is not anticipated that downcutting of erosional channels from the road and drill pads will occur if proper road construction practices are followed. In addition, the road location will contribute to preventing large water accumulations from forming and moving in or on the road bed.

E. Impacts on Livestock Grazing -

Forage available for livestock use will be reduced slightly through the initiation of this project. Assuming a forage production of 30 Animal Unit Mouths per section, the worst possible disturbance, 30 acres, will remove from production 1.4 AUM's of grazing.

Should the wells be dry holes, it is anticipated that final reclamation of the road and drill pads will actually improve available forage through revegetation with more desirable species.

One positive impact of a road into this area of the Book Cliffs is that livestock could be hauled directly into summer range areas as long as the road remains open.

F. Wildlife Resource Impacts -

The wildlife resource values of the Book Cliffs will be impacted to a certain degree through the completion of this proposal. Probably the largest impact will be on the recreational value of hunting big game in a roadless area. While work is progressing in drilling the wells and access is limited to well workers, it is feasible that unauthorized two-wheel vehicle access to the area could be achieved.

It is assumed that the road and wells are not located on areas critical to the perpetuation of the wildlife species present.

Should a well discovery be made, this will create an impetus to develop the adjoining areas. The determination of the extent of this cannot be made at this time. If dry holes are discovered in these two locations, this lessens the possibility considerably that further oil and gas tests will be conducted here.

No rare or endangered species are known to be inhabiting the project area.

G. Impacts to Recreation -

Recreational use patterns could change significantly if the proposed road is not closed permanently, assuming that dry holes are found and the road would be no longer usable.

Should a discovery be made and the access road remains open, an opportunity for broadened recreational use of the Book Cliffs would be presented.

Left uncontrolled and not managed as a new recreational opportunity, the Book Cliffs area would be open to a variety of uses and/or abuses by the general public.

H. Impacts on Vegetation -

It is anticipated that impacts to existing vegetation will not be significant. The 24-30 acres previously mentioned under "Impacts on Livestock Grazing" will be placed out of production on an interim basis.

Approximately 40 sawtimber trees will be felled in the course of constructing the pad for #2-411.

Road Access to this area will improve the vegetation management possibilities available for use here. Fire management, range management, watershed management and vegetative treatments for other objectives would be enhanced with road access for equipment.

I. Impacts on Historical/Archeological Sites -

Since no positive findings have been made in the archeological survey thus far, it can be stated that none of these resources that are known about will be disturbed. Further surveys by the State Archeologist will provide more input on this subject.

J. Socio-Economic Impacts -

Potentially, if a discovery is made, both Grand County and Utah citizens can benefit from such a new development.

Specifically, how much economic benefit is presently derived from grazing and recreational pursuits related to the area is undetermined, but it is thought to be small; thus, a cost benefit analysis is not presented here.

It is equally difficult to evaluate the State-owned block strictly as a roadless area.

IV. MITIGATIVE MEASURES INCLUDED IN THE PROPOSED ACTION:

Two scenarios must be presented to adequately describe all possibilities under mitigative measures.

Under case one, with no discoveries of oil and/or gas made, the mitigative measures would include a closing of the road following the stabilization of all activities on the ground (road and pad). The road would be closed to prevent any further access by blocking with explosives or road demolition by other means.

The second case would include a continual road maintainance job to upgrade and create a haulage way for petroleum products and further exploration equipment. Should discoveries be made, the general site and road edges would be stabilized in much the same way as dry holes except that space would be left for regular vehicle traffic to production facilities.

In either case, water bars and other appropriate erosion control methods will be utilized to reduce erosion and resultant siltation of water courses to the maximum extent practicable.

One mitigative measure implicit in this proposal is the operator's choice of sites and road location. This choice will cause the least possible environmental degradation in exercising his rights as a State mineral lessee.

In addition to planting vegetation as a facet of the stabilization plan, Anschutz will also improve species composition and quantity of the available livestock and wildlife forage.

Efforts will be made by Anschutz to conserve any commercial sawtimber so that it can be utilized by the timber industry. All commercial logs over eight inches DBH will be cut to 16-foot lengths and stacked at the location for disposition by the Division of State Lands. If desired, the company will

replant the site at #2-411 with tree seedlings if the well is not productive.

V. ALTERNATIVES TO THE PROPOSED ACTION:

1. Denial of the Proposed Action -

To deny the drilling of these wells would be counterproductive to the resolution of our nation's current energy crisis. Further, it would deny to both the citizens of the State and the operator a potential income which could be derived from the sale of hydrocarbons.

Effective management of the State's resources would not be served by denying this operator his right to develop valid mineral leases.

2. Permit Access by Air Only to the Project -

Air access has been considered on other similar projects and has not proven to be a viable alternative, since air-transport drilling rigs are not available in the Continental United States.

3. Permit Access by an Alternative Land Route -

This prospect is possible, but would cause more up-front money to be spent in choosing an alternative land route and planning for same.

It is the authors' opinion that the route chosen is preferable to any other access investigated thus far.

4. Permit the Project as Presented -

This action could be permitted with the stringent and constructive governmental constraints, and if successful, could be a source of vitally needed hydrocarbon energy. If not successful, the area could be returned to a very close approximation of original conditions. The long term productivity of the area would not be endangered, due to the relatively short life of the project, even if successful.

VI. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES INVOLVED IN THE PROPOSED ACTION:

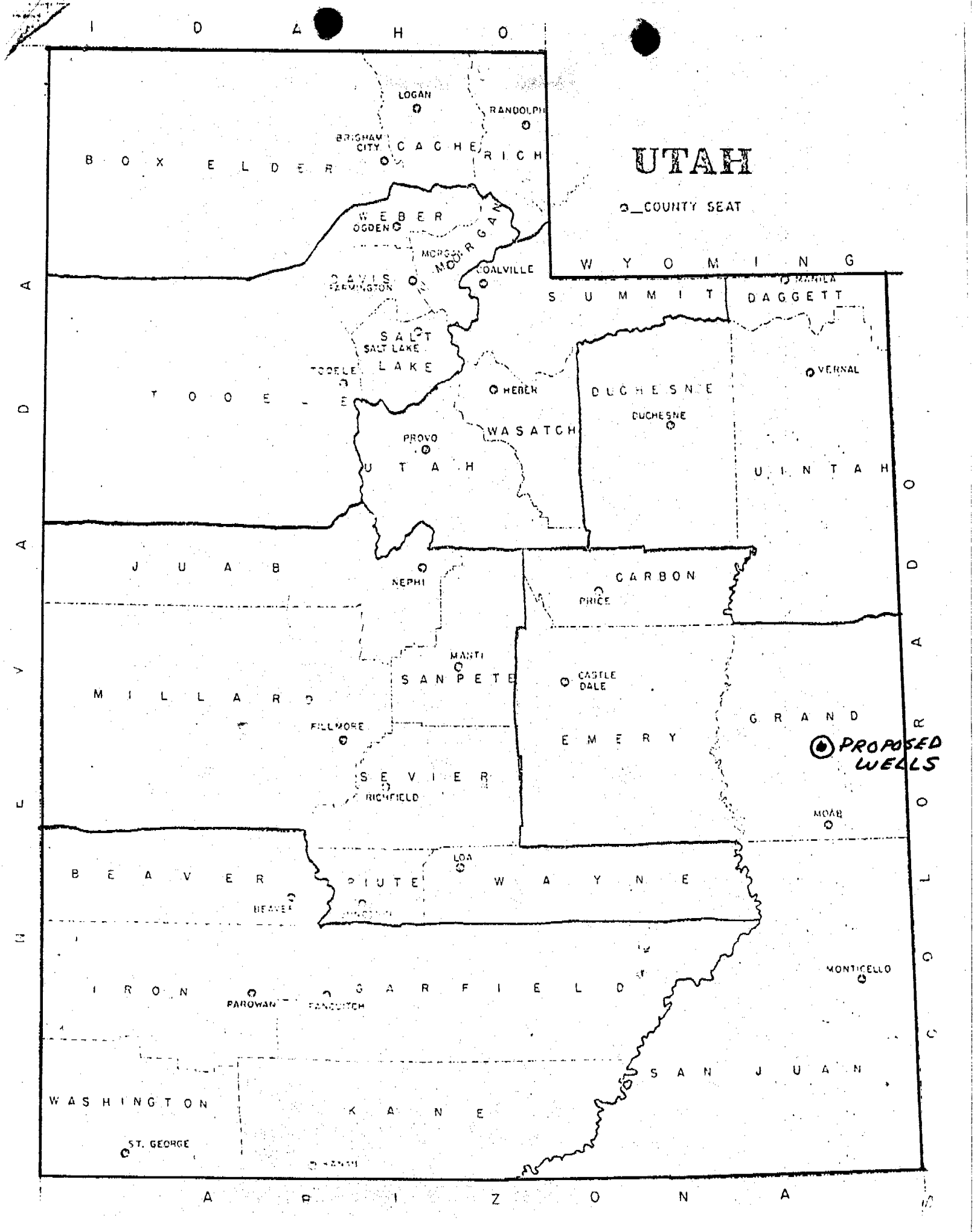
The depletion of the oil and/or gas reservoir, if in the event such a reservoir is found, would constitute an irreversible action. However, the present utilization of this resource would be a valuable and beneficial contribution, in light of current energy demand conditions. Maintaining a possible reservoir in the ground is of no benefit to man's activities.

Since the roadless quality of this area is due to man's non-incursion in previous years, it exists by default. The commitment of the oil and/or gas resources was made previously in line with the State's School Land leasing policy to gain revenue. This proposal is merely a design to develop that commitment.

VII. RECOMMENDATIONS:

Due to the fact that the benefits possibly to be gained from this proposed short term action seem to outweigh the minimal environmental disturbance and conflicting land use desires, it is recommended that this project be allowed as originally proposed.

Alternative 3 "Permit Access by an Alternate Land Route" is the authors' second choice.


IDAHO
WYOMING
COLORADO
NEVADA
ARIZONA
UTAH
COUNTY SEAT
LOGAN
RANDOLPH
BRIGHAM CITY
BOX ELDER
CACHE
RICH
WEBER
OGDEN
MORGAN
DAVIS
FARMINGTON
COALVILLE
SUMMIT
MANILA
DAGGETT
SALT LAKE
SALT LAKE CITY
TOOELE
HEBER
DUCHESNE
VERNAL
WASATCH
PROVO
UTAH
UINTAH
JUAB
NEPHI
CARBON
PRICE
MANTI
SANPETE
CASTLE DALE
MILLARD
FILLMORE
EMERY
GRAND
SEVIER
RICHFIELD
MOAB
PROPOSED WELLS
BEAVER
PIUTE
LOA
WAYNE
BEAVER
IRON
PAROWAN
GARFIELD
MONTICELLO
SAN JUAN
WASHINGTON
KANE
ST. GEORGE

THE ARECHEM CORPORATION
[illegible] BUILDING
[illegible] STREET
DENVER, COLORADO 80202
TELEPHONE [illegible]

July 1, 1977

Mr. Pat Driscoll
Chief Petroleum Engineer
Division of Oil , Gas and Mining
State of Utah
1588 West North Temple
Salt Lake City, Utah 84116

Re: Alternate Access Road for
State 402 and 411 Well Sites

Dear Mr. Driscoll:

As we discussed by phone today I am submitting to you a possible alternate access route to State 402 and 411 sites. This route has been flagged and is therefore ready for antiquity inspection.

Generally, this access appears to be better both in terms of environmental and construction considerations. This route was flown yesterday with Mr. Donald Smith of the Division of Wildlife. This access was also walked by Harold Loach to analyze construction feasibility and by Mr. George Fentress (environmental consultant) and myself to analyze environmental considerations. If you would like to discuss all of the reasons for the superiority of this access alternative, possibly this could be done best at the actual location. Please indicate if you desire this.

This route heads north from State No. 411 location on the top of ridge to No. 402 location. From here the road continues north on a bench approximately ¼ of the way down the west side of the Went Ridge. This portion extends for about 2 miles. At this point the road would switch back to the canyon floor where from this area to the mouth of the canyon the floor is sufficiently wide enough for the road. The road would then turn northeast for approximately one mile in East Willow Creek Canyon. The road then travels north up through the first small canyon onto the top.

Since you indicated you would like this letter by July 5, I will not go into any further detail at this time. Please let me know if you have any questions or would like to see this alternative. Thank you.

Sincerely,
W. Lee Kuhre by BV
W. Lee Kuhre
Operations Coordinator
Environmental Specialist

WLK:bv

July 11, 1977

Memo To File

Re: Alternate Access Road for
State 402 and 411 Well Sites

This is the only alternate route submitted to date by Anschutz. It still commences at the South end. We have not considered this proposal to date, and to the best of my knowledge, Anschutz has not submitted a proposed access from the North.

PATRICK L. DRISCOLL
CHIEF PETROLEUM ENGINEER

PLD/src

SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
ROBERT R. NORMAN
EDGAR B. STEWART
HYRUM L. LEE

MEMORANDUM

To: Environmental Coordinating Committee (through Joan Lear)

From: Ronald W. Daniels, Coordinator of Mined Land Development

Date: July 11, 1977

Subject: Addendum to the Anschutz #1-402 and #2-411 Wildcat oil and/or gas wells

Attached is a map of the revised access route which Anschutz proposes for well #1-402 and #2-411. The environmental assessment for this project was distributed at the July 5, 1977 E.C.C. meeting.

From location #1-402 shown on the map with the assessment you can follow the new access route to the north on the enlarged map. It is generally assumed that the impacts of this activity will be similar to that in the original proposal but a Division field investigation and examination by the archeologist will be conducted before a final determination is made.

Your comments on the new road route are welcome.

9-1

ENVIRONMENTAL ENGINEERING COMPANY
Professional Engineering Services

P. O. Box 3341
Casper, Wyoming 82601
Phone (307) 234-6186

1645 Court Place
Suite 229
Denver, Colorado 80202
Phone (303) 892-1506

July 19, 1977

Cleon Feight
Utah Oil & Gas $ Mining
1588 West, North Temple
Salt Lake City, Utah 84116

RE: Permits to drill
Anschutz Corporation
Various wells
Grand Co., Utah

Dear Cleon:

Enclosed are several items on the above with comments or questions, as follows:

(1) REVISED TYPE OF WORK ON 9-331C AND ACRES ASSIGNED:
On Anschutz #1 & #2 Federal 675 and #1 Federal 104, and
#1, #2, #3 and #4 Federal 335

AMEND TO READ: "Oil Well or Gas Well" "single or multiple zones" (1a and 1b).
"40-acres or 80-acres, if an oil well", and
"160-acres or as spaced, if gas well, and to not produce from same gas zone horizon of any other gas wells within the spacing unit area" (#17 on 9-331C).

Revised copies of Form 9-331 C are enclosed for changes.

(2) ANSCHUTZ #1, #2, #3 and #4 FEDERAL 335:

It is possible I have not sent you applications for permission to drill the four wells. Therefore these applications are enclosed, together with location plats and maps.

(3) STATUS OF REQUESTS TO DRILL BY ANSCHUTZ:

I enclose a three-page status sheet of wells ready or being prepared to drill by Anschutz, on which I have worked. Would you kindly examine this report and advise me of any changes from this or any reports that you might need. I believe all these wells have now been filed with you now, and, I am wanting to make certain that Utah has approved, or is about to approve, all of these locations as noted.

I am most appreciative of all the help you have given us there in the Oil, Gas and Mining Division.

Best wishes!

George H. Fentress
Agent Consultant Anschutz

cc. Anschutz

ENVIRONMENTAL ENGINEERING COMPANY
Professional Engineering Services

P. O. Box 3341
Casper, Wyoming 82601
Phone (307) 234-6186

1645 Court Place
Suite 229
Denver, Colorado 80202
Phone (303) 892-1506

CIRCULATE TO:
DIRECTOR
PETROLEUM ENGINEER
MINE COORDINATOR
ADMINISTRATIVE ASSISTANT
ALL
RETURN TO
FOR FILING

July 26, 1977

Scheree Wilcox
Utah Oil & Gas Comm.
Salt Lake City, Utah

Re: Petrographs
Grand Co., Utah

Dear Scheree:

It was good meeting you last week, especially after all the good help you and the others there have given Anschutz and myself. We all do sincerely appreciate it.

As mentioned to you and Ron Daniels the other day, there are some petrographs in the approximate NE NW of Lot 4 Sec. 18-T18S-R21E of Grand County. I enclose a surveyors plat prepared that you can use to identify where the cliff with petrographs is located.

It is a hard walk in off the jeep trail (a very good trail) on Steer Ridge (where Jack, Pat and I traveled) down the southwestward draw to the area. The route is flagged, unless removed by animals or others.

I suggest that the petrographs be removed, since the slab is going to fall someday anyway, as can be seen in the photograph. Also, we who viewed this question its authenticity. We also observed very little around the area but what it was quite washed away or silted in. The general area could have sustained indian culture in the bottom of East Willow Creek, but it is quite dubious if any remnants would be found, except petrographs such as this, due to heavy use by animals, man, and especially because of erosion, etc.

Would you kindly show this to Jack and advise him of this. I do believe that any road into this area would have little effect on this culture, except possibly at the site itself and the site should be examined by your archaeologist. A road into the area will avoid the immediate vacinity of the petrographs.

RECEIVED
JUL 27 1977

Best Wishes!

George H. Fentress

Approx. N/2 NW/4 Lot 7
Sec 18 - 17S - 21E
Grand County Utah

Facing northeast into
Recessed cliff face
Petroglyphs on a slab
About to spall off

ROBERT G. PRUITT, JR.
OLIVER W. GUSHEE, JR.
PHILLIP WM. LEAR

LAW OFFICES
PRUITT & GUSHEE
79 SOUTH STATE-SUITE 400
SALT LAKE CITY, UTAH 84111
(801) 531-8446

CIRCULATE TO:
DIRECTOR
PETROLEUM ENGINEER
MINE COORDINATOR
ADMINISTRATIVE ASSISTANT
ALL
RETURN TO
FOR FILING

September 16, 1977

Honorable Scott M. Matheson
Governor of the State of Utah
State Capitol Building
Salt Lake City, UT 84114

Dear Govenor Matheson:

A report in the Salt Lake Tribune on September 11 erroneously states that Anschutz Corporation has offered to sell back its 66,000 acres of state leases for $6.5 million. Mike Youngren assures me that you made no such statement, and you certainly know that the company has not made any such offer. However, the news report has created the false impression that "for a price" Anschutz would abandon development and sell its leases back to the State.

As the sole representative of Anschutz Corporation on the helicopter inspection of September 10, I want to deny that any such offer was made, or even discussed. It would be ridiculous for the State to spend tax money or School Funds to buy a valuable oil property merely to lock it up. But since false impressions die slowly, if at all, unless explained away, I feel compelled to explain the company's position, and the reason why the company has been meeting with so many state agencies.

In 1971 Anschutz purchased oil and gas leases from the State of Utah covering most of a large block of state lands which were specifically acquired in the 1960's by the State Land Board because of their mineral potential (bituminous sands, oil and gas, and coal). During 1975 the Utah Division of Wildlife Resources convinced the State Land Board that a roadless area should be established to provide for "a select wilderness hunting experience" and "a quality big game hunting unit" where a restricted number of hunters could enjoy "hunting relatively unmolested by the activities of other hunters".*

I cannot imagine what statutory authority the Land Board relied upon in "declaring a roadless area", but they were apparently

---

*Statements in quotes are exact quotations from the DWR proposal dated May, 1974, on file in the Division of State Lands.

unmindful at the time that Anschutz Corporation already held state and federal oil and gas leases covering virtually the entire proposed area. All of the Anschutz leases expressly grant to the lessee an unrestricted right of access, including the right to build roads, for the purpose of exploring and producing leased mineral deposits. Two recent Utah Attorney General opinions clearly confirm these expressed rights of the lessee.

In 1976 Anschutz first learned that the "roadless area" had been established in 1975 for the benefit of the Division of Wildlife Resources, when Anschutz sought to form an oil and gas drilling unit. Numerous meetings were held with the staff of the Division of State Lands in an effort to reach an agreement on proposed drill sites and the establishment of necessary access roads. Environmental studies by the Utah Division of Oil, Gas and Mining led to the approval of three drilling locations within the roadless area and necessary access roads into the area from existing public roads to the south. Anschutz is most anxious to drill two of these approved locations, both involving wells situated on Went Ridge and accessable by a new road to be built along the open sage brush flat top of the ridge connecting to an existing public road at the head of Sego Canyon. These are the well sites and the road route which you inspected by helicopter on September 10.

The Division of Wildlife Resources has taken the position that the company should abandon its plans for drilling and road access within the roadless area, but that is simply not possible. Only when DWR concluded that an oil lessee could not legally be stopped, did they suggest that state monies might be expended to keep the area undeveloped for the benefit of hunters.

When Gordon Harmston requested that we meet in your office on August 15, we believed that you intended to resolve the conflict among the three agencies of the Department of Natural Resources - Wildlife Resources, Oil, Gas and Mining, and State Lands - created when the State Land Board promised an impossible "lock up" of the Book Cliffs area for the benefit of DWR and a select group of hunters. A decision by your office was postponed pending review by at least two additional committees, and eventually to permit your personal inspection of the area in controversy. During that period we read several distorted newspaper accounts of the purpose and the results of these deliberations, which have only served to further confuse the issues.

Your most recent request, that the director of still another state agency, the Utah Geological and Mineral Survey, review certain of the company's confidential geological and geophysical data, was agreed to in the hope that his report would convince you of the necessity of drilling at the proposed locations. Somehow this most recent development was divulged to the press along with false information that Anschutz was offering to sell back to the State its oil and gas leases for several million dollars. At this stage I became distressed that the company's good faith efforts to cooperate with the several state agencies, and with your office, are only resulting in delays, rather than an acceptable resolution to a problem created by the 1975 Land Board action.

The environmental reports conclude that the drilling and road building activities will cause no lasting damage unless a major oil field is developed. The only remaining expressed concern is that the general public will utilize a new road to uncontrolably overrun the area, causing damage to the environment and frightening the wildlife. The company has agreed to safeguards and restoration which will adequately prevent that possibility. I submit that the real issue is the determination of DWR that a hunting area be maintained at any cost for a select few hunters, from which the public and any oil lessee must be barred. Only your office can convince DWR that drilling and road access cannot be legally prevented, and that a cooperative attitude is necessary to assure the best planning.

It would be greatly appreciated if, promptly after the Director of the Geological and Mineral Survey reports to you regarding our scheduled meeting on September 21, your office or the Department of Natural Resources would sit down with Anschutz personnel to mutually decide upon the route onto Went Ridge which will best satisfy all the competing concerns in this matter. Based on that mutual decision, Anschutz Corporation will make the necessary preparations for access to the approved drillsites and accomplish the work involved. Further unjustified delays cannot be permitted, since road building and drilling operations during the winter will increase costs and result in damage to the environment.

Copies of this letter are being directed to the affected state agencies in an effort to dispell some of the growing

confusion concerning the company's intentions and plans for action. Anschutz Corporation has a genuine desire to cooperate with the State of Utah in any reasonable manner, but it has no intention of abandoning this large and very important drilling project.

Yours very truly,

Robert G. Pruitt, Jr.
Attorney for The Anschutz Corporation

RGP:jo

cc Gordon Harmston, Department of Natural Resources
Charles R. Hansen, Division of State Lands
Cleon B. Feight, Division of Oil, Gas & Mining
Don Smith, Division of Wildlife Resources
Howard Ritzma, Geological and Mineral Survey
Paul E. Reimann, Assistant Attorney General

September 22, 1977

Mr. Philip Anschutz, President
Anschutz Corporation
1110 Denver Club Building
518 - 17th Street
Denver, Colorado 80202

Dear Phil:

Accompanied by State personnel and your representative Bob Pruitt, I have visited the roadless area by helicopter. I determined that we would have your technical data appraised by competent people in the Utah Geological and Mineral Survey.

Mr. Howard Ritzma and Mr. Josh Campbell have gone over the data with representatives of your concern. They concluded that the information you have amassed warrants a drilling program to determine the extent and value of any oil and gas reservoirs in the area.

Therefore, based on this information and the opinion from the Attorney General, I have concluded that we should allow access for this drilling effort. You expressed real commitment to the preservation of the environment and the values we seek to preserve.

After flying over the area, I am convinced that the State of Utah would prefer the northern route. I pledge the best efforts of the various interested divisions of State government to help you locate a road that would most nearly meet our needs.

Receipt of this letter will allow you to commence negotiations with the Division of State Lands to prepare an acceptable plan.

Sincerely,

Governor

SMM:geh
cc: Robert G. Pruitt
Charles R. Hansen
bcc: Donald Smith

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

September 24, 1977

The Anschutz Corporation
1110 Denver Club Building
Denver, Colorado 80202

Re: Well No's:
#1 State 402,
Sec. 36, T. 17 S, R. 20 E,
#2 State 411,
Sec. 23, T. 18 S, R. 20 E,
Grand County, Utah

Gentlemen:

In accordance with the September 22, 1977, letter from Governor Scott M. Matheson to Mr. Philip Anschutz, approval to drill the above referred to wells is hereby granted.

Should you determine that it will be necessary to plug and abandon this well(s), please notify the following immediately:

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the rig number and drilling contractor be identified.

The API number assigned to this well(s) is: #402-43-019-30397, and #411 - 43-019-30398.

Very truly yours,
DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

State
(Samson)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

** FILE NOTATIONS **

Date: Sept 27-

Operator: Anschutz Corp.

Well No: #2 State 411

Location: Sec. 33 T. 18S R. 20E County: Grand

File Prepared: / / *Entered on N.I.D.:* / /

Card Indexed: / / *Completion Sheet:* / /

API NUMBER: 43-019-30398

CHECKED BY:

Administrative Assistant

Remarks:

Petroleum Engineer

Remarks:

Director

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: Of State / / *Survey Plat Required:* / /

Order No. / / *Surface Casing Change to* / /

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site / /

O.K. Rule C-3 / / *O.K. In* / / *Unit* / /

Other:

9-22-77 Approval by Gr. Officer

/ / *Letter Written/~~Approved~~*

THE ANSCHUTZ CORPORATION

1110 DENVER CLUB BUILDING
518 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303—573-5665
TWX 910 931 2820

July 18, 1978

State of Utah
Dept. of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Kathy Ostler, Records Clerk

Dear Ms. Ostler:

As requested in your letter of June 8, 1978 the following is submitted.

To update your records the following wells have not yet been drilled and our plans have not changed.

Well No. Federal 258-#4, Sec. 5, T. 18S, R. 24E,
Grand County, Utah

Well No. Federal 335-#2, Sec. 20, T. 19S, R. 23E,
Grand County, Utah

Well No. Federal 335-#4, Sec. 19, T. 19S, R. 23E,
Grand County, Utah

Well No. Federal 350-#1, Sec. 4, T. 18S, R. 24E,
Grand County, Utah

Well No. State 400-#1, Sec. 17, T. 16S, R. 23E,
Grand County, Utah

Well No. State 402-#1, Sec. 36, T. 17S, R. 20E,
Grand County, Utah

Well No. State 404-#1, Sec. 23, T. 17S, R. 21E,
Grand County, Utah

Well No. State 411-#2, Sec. 23, T. 18S, R. 20E,
Grand County, Utah

Well No. State 414-#1, Sec. 32, T. 18S, R. 21E,
Grand County, Utah

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT OF OPERATIONS

Lease No. ML - 2[redacted]
Communitization Agreement No. _____
Field Name Wildcat
Unit Name Queant
Participating Area _____
County Grand State Utah
Operator THE ANSCHUTZ CORPORATION
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of November, 19 78

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
2	23	18S	20E	Drill					In process of being drilled

RECEIVED
DEC 26 1978
DIVISION OF OIL, GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits			
*Other (Identify)	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*On hand, End of Month			
*API Gravity/BTU Content		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
			XXXXXXXXXXXXXXXX

Authorized Signature: Mary Lou Erger Address: 2400 Anaconda Tower
Denver, Colorado 80202
Title: Production Clerk

Page _____ of _____

Form 9-330
(Rev. 5-63)

5

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 2400 Anaconda Tower, Denver, Colorado 80202

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 802' FWL & 1572' FNL
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: State 27411
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME: Queant
8. FARM OR LEASE NAME: State 411
9. WELL NO.: 2
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 23, T. 18S-R. 20E
12. COUNTY OR PARISH: Grand
13. STATE: Utah

14. PERMIT NO. — DATE ISSUED

RECEIVED FEB 7 1979 DIVISION OF OIL, GAS & MINING

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9-10-78	12-19-78	1-24-79	8934 GR	8904' EST

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
10,786	Surface		→	0-10,786	-0-

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: FDC-CNL-GR, CNL, BHC-GR. DIL

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	94	61	30"	250 sx	-0-
13-3/8"	54.5	5452	17½	635 sx	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)

5280-5300 - 2 SPF
5040-5050 - 2 SPF
5054-5066 - 2 SPF
5072-5082 - 2 SPF

4" casing gun

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Peter B. Doty (mre) TITLE Operations Coordinator DATE February 5, 1979

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Castlegate	5030	5330	Wet
Dakota	8820	9010	Wet
Morrison	9010	9335	Wet
Salt Wash	9335	9642	Wet
Summerville	9642	9700	Tite
Entrada	9700	9830	Wet
Navajo	9830	9920	Wet
Keyenta	9985	10,103	Tite
Wingate	10103	10,568	Wet
Chinle	10568	10,663	Tite

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Castlegate	5030	
Dakota	8820	
Morrison	9010	
Salt Wash	9335	
Summerville	9642	
Entrada	9700	
Navajo	9830	
Kayenta	9985	
Wingate	10103	
Chinle	10568	
Granite	10663	

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-780-680/VIII-238

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: State 27411

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED FEB 7 1979 DIVISION OF GAS, & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER: Dry Hole

7. UNIT AGREEMENT NAME: Queant

2. NAME OF OPERATOR: The Anschutz Corporation

8. FARM OR LEASE NAME: State 411

3. ADDRESS OF OPERATOR: 2400 Anaconda Tower, Denver, Colorado 80202

9. WELL NO.: 2

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 802' FWL, 1572' FNL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 23, T.18S-R.20E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 8934' GR

12. COUNTY OR PARISH: Grand

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

This well was drilled to a total depth of 10,786' which was reached on December 19, 1978. Electric logs were run to T.D. with only marginal indications of hydrocarbons in the Castlegate formation. In order to test the Castelgate, cement plugs were set as follows:

Depth	Cement
5480-5400	70 sx
9800-9700	105 sx
10740-10590	75 sx

The lower Castlegate was then perforated w/ 2 SPF from 5280-5300. Swab testing indicated this zone was wet. A cast iron bridge plug was set at 5230' and the upper Castelgate was perforated w/2 SPF in the following intervals: 5040-50, 5054-66, and 5072-82. Swab testing indicated this zone was also wet.

It is proposed to plug and abandon this well with plugs set as follows:

Depth	Cement
4788-4882	70 sx
Surface	10 sx

This work was completed on January 24, 1979.

18. I hereby certify that the foregoing is true and correct

SIGNED Peter B. Doty (mLE.) TITLE Operations Coordinator DATE February 5, 1979

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side